

NEW MEXICO OIL CONSERVATION COMMISSION
GAS WELL TEST DATA SHEET - - SAN JUAN BASIN

(TO BE USED FOR FRUITLAND, PICTURED CLIFFS, MESAVERDE, & ALL DAKOTA
EXCEPT BARKER DOME STORAGE AREA)

Pool TAPIETO PICTURED CLIFFS Formation PICTURED CLIFFS County RIO ARriba
Purchasing Pipeline SOUTHERN UNION GAS Date Test Filed April 20, 1956
Operator Humboldt Oil Corporation Lease Alcorilla Apache 288 Well No. 1
Unit E Sec. 20 Twp. 26 N Rge. 4 W Pay Zone: From 3529 To 3572
Casing: OD 5 1/8" WT. 24 Set At 3526 Tubing: OD 2" WT. 4.7 T. Perf. 3529
Produced Through: Casing Tubing I Gas Gravity: Measured 2.400 Estimated
Date of Flow Test: From 2-29-56 To 3-4-56 * Date S.I.P. Measured 2-26-56
Meter Run Size 1" Orifice Size 2.250 Type Chart Conv Type Taps 225

OBSERVED DATA

Flowing casing pressure (Dwt) _____ psig + 12 = _____ psia (a)
Flowing tubing pressure (Dwt) _____ psig + 12 = _____ psia (b)
Flowing meter pressure (Dwt) _____ psig + 12 = _____ psia (c)
Flowing meter pressure (meter reading when Dwt. measurement taken):
Normal chart reading _____ psig + 12 = _____ psia (d)
Square root chart reading (_____) ² x spring constant _____ = _____ psia (d)
Meter error (c) - (d) or (d) - (c) _____ ± _____ = _____ psi (e)
Friction loss, Flowing column to meter:
(b) - (c) Flow through tubing: (a) - (c) Flow through casing _____ = _____ psi (f)
Seven day average static meter pressure (from meter chart):
Normal chart average reading _____ psig + 12 = _____ psia (g)
Square root chart average reading (_____) ² x sp. const. _____ = _____ psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) _____ = _____ psia (h)
P_t = (h) + (f) _____ = _____ psia (i)
Wellhead casing shut-in pressure (Dwt) 1025 psig + 12 = 1037 psia (j)
Wellhead tubing shut-in pressure (Dwt) 1025 psig + 12 = 1037 psia (k)
P_c = (j) or (k) whichever well flowed through _____ = 1037 psia (l)
Flowing Temp. (Meter Run) 95 °F + 460 _____ = 555 °Abs (m)
P_d = 1/2 P_c = 1/2 (l) _____ = 518 psia (n)

FLOW RATE CALCULATION

$$Q = \frac{947}{(\text{integrated})} \times \left(\frac{\frac{V(c)}{V(d)} = \frac{23.63}{23.70} = .992}{\right)} = 947 \text{ MCF/da}$$

DELIVERABILITY CALCULATION

$$D = Q \frac{1}{\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n} = 1020 \text{ MCF/da.}$$

SUMMARY

P_c = 1037 psia
Q = 947 Mcf/day
P_w = 518 psia
P_d = 518 psia
D = 1020 Mcf/day

Company Humboldt Oil Corporation
By H. C. Edwards
Title Division Production Eng.
Witnessed by _____
Company _____

* This is date of completion test.
* Meter error _____

REMARKS OR FRICTION CALCULATIONS

GL	$(F_c Q)^2$	$(F_c Q)^2 (1-e^{-S})$	P_t^2	$P_t^2 + R^2$	P_w
		R ²	(Column i)		
<u>282</u>	<u>22.60</u>	<u>12.977</u>	<u>315.04</u>	<u>328.02</u>	<u>518</u>



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